Plant and Soil

INTERNATIONAL JOURNAL OF PLANT NUTRITION,
PLANT CHEMISTRY, SOIL MICROBIOLOGY AND
SOIL-BORNE PLANT DISEASES

VOLUME II

THE HAGUE
MARTINUS NIJHOFF
1949-1950

Copyright 1950 by Martinus Nijhoff, The Hague, Holland
All rights reserved, including the right to translate or to reproduce this journal or parts thereof in any form

PRINTED IN HOLLAND

CONTENTS — TABLE DES MATIÈRES — INHALT

PAGE

ARNON, DANIEL I., Dennis Robert Hoagland 1884–1949 . . . 129

AUDUS, L. J., The biological detoxication of 2 : 4-dichlorophenoxyacetic acid in soil 31

BAVEL, C. H. M. VAN, Soil aggregate stability as affected by sterilization with ethylene oxide and heat 395

BIE, G. J. VAN DER, see VERMAAT, J. G.

BOISCHOT, P., M. COPPENET et J. HEBERT, Fixation de l'acide phosphorique sur le calcaire des sols 311

BOKEN, ELSE, see STEENBJERG, F.

COLEMAN, N. T., see WILLIAMS, D. E.

COPPENET, M., see BOISCHOT, P.

DORPH-PETERSEN, K. and F. STEENBJERG, Investigations of the effect of fertilizers containing sodium 283

GERRETSEN, F. C., Manganese in relation to photosynthesis 159, 323

HARMSEN, G. W. and D. J. LINDENBERGH, Investigations on the nitrogen nutrition of plants. 1

HARPER, JOHN L., Studies in the resistance of certain varieties of banana to Panama disease. Part I. Internal factors for resistance and antibiotics. 374

——, Studies in the resistance of certain varieties of banana to Panama disease. Part. II. The rhizosphere 383

HASKELL, GORDON, Studies with sweet corn 49

HASKELL, G. and G. G. SELMAN, Studies with sweet corn III . 359

HEBERT, J., see BOISCHOT, P.

HENDE, A. VAN DEN, Des effets de l'épandage de nitrites sur des cultures en plein champ 223

JENSEN, H. L., Periodical variations in nitrogen fixation by *Azotobacter* 301

LEES, H., A simple apparatus for measuring the oxygen uptake of soils 123

LEES, H. and J. W. PORTEOUS, The release of carbon dioxide from soils percolated with various organic materials 231

LEHR, J. J., Exploratory pot experiments on sensitiveness of different crops to sodium: A. Spinach 37

——, Differences in the recovery of nitrogen from ammoniacal and nitrate sources in the reclaimed polders of the Zuyder Zee 345

LINDENBERGH, D. J., see HARMSEN, G. W.

MULDER, D., Magnesium deficiency in fruit trees on sandy soils and clay soils in Holland 145

MULDER, E. G., Mineral nutrition in relation to the biochemistry and physiology of potatoes 59

PATTANAIK, S., The effect of manganese on the catalase activity of rice plant.
Letter to the editors 418

PORTEOUS, J. W., see LEES, H.

SELMAN, G. G., see HASKELL, G.

STEENBJERG, F. and ELSE BOKEN, Copper contents and copper deficiency in Danish soil types 195

STEENBJERG, F., see DORPH-PETERSEN, K.

VERMAAT, J. G. and G. J. VAN DER BIE, On the occurence of copper in tropical soils 257

WILLIAMS, D. E. and N. T. COLEMAN, Cation exchange properties of plant root surfaces 243

WILLIGEN, A. H. A. DE, Conductivity and buffer capacity of potato juice as correlated with potassium supply to the plant 405

PLANT & SOIL

Digitized by the Internet Archive
in 2026

https://archive.org/details/plant-and-soil_1949-1950_2_contents

PLANT AND SOIL

International Journal of Plant Nutrition, Plant Chemistry, Soil Microbiology and Soil-borne Plant Diseases.

Revue internationale de nutrition des plantes, de chimie végétale, de microbiologie du sol et des maladies des plantes en rapport avec le sol.

Internationale Zeitschrift für Pflanzenernährung, Pflanzenchemie, Bodenmikrobiologie und bodenbedingte Pflanzenkrankheiten.

Issued under the auspices of the Netherlands Society of Agricultural Science

Executive Editors: D. I. Arnon, Berkeley; J. Baeyens, Louvain; F. C. Gerretsen, Groningen; E. G. Mulder, Groningen; F. J. Richards, London; A. C. Schuffelen, Wageningen; F. Steenbjerg, Copenhagen.

Executive Editors: Wm. A. Albrecht, Columbia, Mo.; C. Arnaudi, Milano; A. Demolon, Paris; E. Gäumann, Zürich; L. Gisiger, Liebefeld-Bern; F. G. Gregory, London; G. W. Harmsen, Ottawa; J. den Holder, Ghent; T. H. van den Honert, Leiden; V. J. Koningsberger, Utrecht; J. Lavollay, Paris; W. J. Lütjeharms, Bloemfontein; H. Lundegårdh, Uppsala; E. Melin, Uppsala; M. Mes, Pretoria; M. Ødelien, Ås; E. J. Petersen, Copenhagen; C. S. Piper, Adelaïde; J. Smit, Wageningen; H. G. Thornton, Rothamsted; S. Tovborg Jensen, Copenhagen; A. I. Virtanen, Helsinki; S. A. Waksman, New Brunswick; F. W. Went, Pasadena; Joh^{a}. Westerdijk, Baarn; J. G. Wood, Adelaïde.

N.V. VAN DE GARDE & CO'S DRUKKERIJ, ZALTBOMMEL